



THE WEIZMANN SCIENCE PRESS OF ISRAEL

National Council for Research and Development

ISRAEL Journal of MATHEMATICS

Volume 61
1988



מוסד ויצמן לפרסומים במדעי הטבע ובטכנולוגיה, ירושלים
THE WEIZMANN SCIENCE PRESS OF ISRAEL

Publishers of the Following Journals

ISRAEL JOURNAL OF BOTANY; ISRAEL JOURNAL OF CHEMISTRY;
ISRAEL JOURNAL OF EARTH-SCIENCES; ISRAEL JOURNAL OF MATHEMATICS;
ISRAEL JOURNAL OF TECHNOLOGY; ISRAEL JOURNAL OF ZOOLOGY;

JOURNAL D'ANALYSE MATHÉMATIQUE

לדת מדע לנוער
(SCIENCE FOR YOUTH) **בז**
(SCIENCE) **עתון מדעי לכל**

Supporting Institutions

THE NATIONAL COUNCIL FOR RESEARCH AND DEVELOPMENT;
BAR-ILAN UNIVERSITY; BEN GURION UNIVERSITY OF THE NEGEV;
TECHNION — ISRAEL INSTITUTE OF TECHNOLOGY; TEL AVIV UNIVERSITY;
THE HEBREW UNIVERSITY OF JERUSALEM; THE WEIZMANN INSTITUTE OF SCIENCE

GENERAL EDITORIAL BOARD

D. ABIR
A. DVORETZKY
C. ELATA
H. EYAL-GILADI
M. JAMMER
J. JORTNER
E. LENZ
L. REINHOLD

**ISRAEL JOURNAL
OF MATHEMATICS**

Formerly: Bulletin of The Research Council
of Israel, Section F

Editorial Board

H. M. FARKAS
The Hebrew University of Jerusalem
Executive Editor
S. ABARBANEL
Tel Aviv University
S. A. AMITSUR
The Hebrew University of Jerusalem
H. FURSTENBERG
The Hebrew University of Jerusalem
A. LEVY
The Hebrew University of Jerusalem
J. LINDENSTRAUSS
The Hebrew University of Jerusalem
M. MAGIDOR
The Hebrew University of Jerusalem
A. PAZY
The Hebrew University of Jerusalem
B. WEISS
The Hebrew University of Jerusalem

Executive Editor

P. GREENBERG

Four volumes of the Israel Journal of Mathematics are to be published in 1988,
Vols. 61, 62, 63 and 64

Subscriptions should be addressed to the Weizmann Science Press of Israel, P.O.B. 801, Jerusalem 91007 Israel. Subscription fees per volume, U.S.\$50.00+\$2.00 postage & handling (\$200.00+\$8.00 postage & handling for the 4 vols.). Individual members of mathematical societies may subscribe at a 50% discount.

© 1988 THE WEIZMANN SCIENCE PRESS OF ISRAEL
Typeset & Printed at Ben-Zvi Printing Enterprises Ltd., Jerusalem

ISRAEL JOURNAL OF MATHEMATICS

TABLE OF CONTENTS, VOLUME 61, 1988

APTER, A. W. On a problem inspired by determinacy	256
BAGGETT, L. On circle-valued cocycles of an ergodic measure-preserving transformation	29
BARTHÉLEMY, L. AND P. BÉNILAN Sous-potentiels d'un opérateur nonlinéaire	85
BÉNILAN, P. <i>See</i> L. Barthélemy	
BERELE, A. Cocharacters of $\mathbb{Z}/2\mathbb{Z}$ -graded algebras	225
BOURGAIN, J. On the maximal ergodic theorem for certain subsets of the integers	39
BOURGAIN, J. On the pointwise ergodic theorem on L^p for arithmetic sets	73
CANNARSA, P. AND V. VESPRI Generation of analytic semigroups in the L^p topology by elliptic operators in \mathbb{R}^n	235
COLOMBO, G., A. FONDA AND A. ORNELAS Lower semicontinuous perturbations of maximal monotone differential inclusions	211
DRAGOMIR, S. On submanifolds of Hopf manifolds	199
FONDA, A. <i>See</i> G. Colombo	
GODEFROY, G. On Riesz subsets of abelian discrete groups	301
JOYNER, D. On the metaplectic analog of Kazhdan's "endoscopic" lifting	113
KIFER, Y. Bounded harmonic functions on nonamenable covers of compact manifolds	170
KOMJÁTH, P. Consistency results on infinite graphs	285
LANSKI, C. Invariant additive subgroups of a certain kind	192
LYONS, R. On measures simultaneously 2- and 3-invariant	219
MATSUOKA, C. Jensen measures of uniform algebras	155
ORNELAS, A. <i>See</i> G. Colombo	
POLLICOTT, M. C^r -rigidity theorems for hyperbolic flows	14
RAO, M. Capacitary inequalities for energy	179
SILVA, C. E. On μ -recurrent nonsingular endomorphisms	1
SIMMONS, H. The semiring of topologizing filters of a ring	271
VAN DEN BERGH, M. Group rings over Dedekind rings	295
VESPRI, V. <i>See</i> P. Cannarsa	

